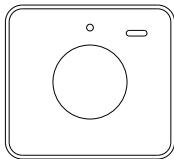


# LTEM Mini GPS Tracker

## QBIT M

### User Manual V1.0







The product specifications and information in this document are for reference only and no prior notice will be given if any change is made. Unless otherwise stated, the content of this document is not a guarantee in any form.

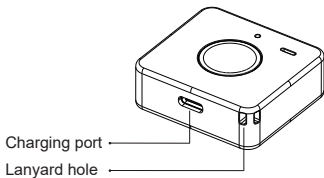
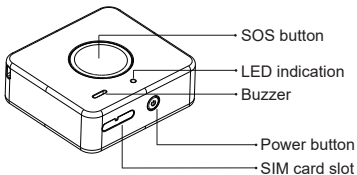
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# 1.Introduction

## 1.1 Packing List

			
Qbit M	Lanyard	Back Clip	Ejector Pin

## 1.2 Buttons and Interfaces



## 1.3 Specifications

Dimensions	45mm x 41mm x 15mm
Weight	31.8g
Ingress Rating	IP66
Cellular	Cat-M1: B2, B4, B5,B12, B13, B25, B26, B66 Cat-NB1/NB2: B2, B4, B5,B12, B13, B25, B26, B66
GNSS	GPS L1 C/A support QZSS L1 C/A support
Battery	Built-in 650mAh Li-polymer battery

## 1.4 LED Indication

Connotation	Indication
Power on successfully	The LED lights up white for 1s and goes out.
Shut down failed	The LED lights up red for 1s and goes out if the Power button is used for the shutdown.
Shut down successfully	The LED lights up white and goes out if the Power button is used for the shutdown.
Fixing positions	The LED flashes blue every half second.
Network error	The LED flashes yellow.

## **1.5 maximum output power (only for EU)**

RF technologies

LTE Band1, Band3, Band8, Band20, Band28

Max RF Power

23dBm

RF technologies

BT

Operation Frequency

2402-2480MHz

Max EIRP

1.56dBm

RF technologies

2.4G Wi-Fi

Operation Frequency

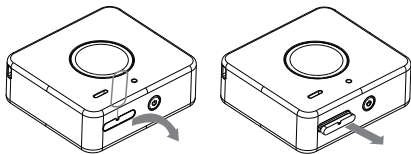
2412-2472MHz

Max EIRP

13.05dBm

## 2.Quick Start

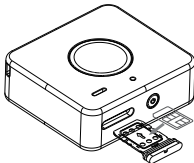
### 2.1 SIM Card Attachment



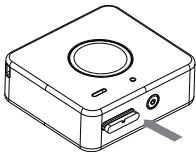
- 1** Align the ejector pin to the hole on the SIM card tray and pry out part of the tray.



- 2** Pull out the SIM card tray with your hand.



- 3** Place the SIM card in the tray with its chip side facing upward, keep the pry hole upward, and align the tray with the slot.



- 4 Gently push the tray into the slot.

**Note:** The chip side of the SIM card and the opening of the tray must be facing upward (the side with the panic button is the up side).

## 2.2 Charging

- If the LED lights up red just for 1 second when turning the device on, it needs charging.
- Use a Type-C cable for the charging (A charger of 5V/1A or above is recommended, such as the USB port on a computer or a phone charger). During charging, the LED flashes red.
- The LED turns solid white after the charging is complete.

## 2.3 Device Binding

Use the designated app to scan the IMEI QR code to add the device to your account. The QR code is printed on the back cover of the device or the sticker inside the packing box. If the QR code cannot scan, you can input the 15 digits under the QR code to bind it.

## 2.4 Powering Device On

If the device is in shutdown state, press and hold the Power button for 3 seconds, the LED will turn white and the buzzer will beep twice to indicate that the device has been successfully powered on.

After that, the device LED flashes blue to indicate it is working correctly (refer to LED Indication for details).

## 2.5 Shutting Device Down

If the device is in power-on state, press and hold the Power button for 3 seconds, the LED will turn white and the buzzer will beep once to indicate that the device has been successfully shut down.

**Note: If an error prompt appears during shutdown, please check if the device has been configured with a shutdown restriction.**

## 2.6 Waking Device Up

If the device is in sleep mode, press the panic button for 4 times in 5 seconds to wake the device up. Upon wakeup, the device LED will turn blue for 1 second and then work as preset.

**Note: If the device has been configured with a wakeup prompt tone, the buzzer will beep.**

# 3. Setup

## 3.1 Working Mode

The device can work in 3 modes - regular GPS, intelligent, and tracking, allowing you to switch based on specific needs.

## **Regular GPS Mode**

In this mode, the device will report location information at a preset interval. This mode uses the least power and is suitable for cargo tracking scenarios.

## **Intelligent Mode**

In this mode, the device will adjust its reporting frequency according to the WiFi geofence setting, operation duration, and motion status. The device can save power to the largest extent using such a mechanism.

## **WiFi Geofencing**

Three WiFi geofences are allowed to be set as safe zones. The device will not report location information by default when inside any safety zone; and it will report location information according to the preset operation duration when outside of safety zones.

## **Operation Duration**

The device can be configured with an operation duration to save power. For example, you can set the out duration (7:00 to 19:00) as the operation duration of the device and the device will keep silent in other time periods.

## **Motion Status**

The device can be configured to report location information only during moving to save power and get as much location information about the object under tracking. You can also change the reporting interval based on specific needs.



## 3.2 Panic Button

If the device is already powered on, you can keep pressing the panic button to send out SOS alerts. If the operation is successful, the device will beep 3 times. You will receive an SOS alert notification on the app.



## 3.3 Vehicle Finding by Sound

If you are near the device and cannot find it, you can use the app to activate its buzzer to beep to indicate its location.

## 3.4 Moving or Parking Notification

**Note:** This features is only valid when the device works in intelligent mode.

If you would like to know the motion status of the object under tracking, you can enable this feature. In this way, you will receive a notification on the app when the device starts moving or stops.

## **Battery**

-replacement of a battery with an incorrect type that can defeat a safeguard (for example.in the case of some lithium battery types);

-disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;

-leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and

-a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## **FCC compliance statement**

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **Radiation Exposure statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over 1 gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body. the minimum distance to human body is 5mm.

## **CE SAR**

This equipment complies with Directive 2014/53/EU radiation exposure limits set forth for an uncontrolled environment, End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

The portable device is designed to meet the requirements for exposure to radio waves established by European Union market(France).

SAR limit of 2W/kg .The highest SAR value XX W/kg